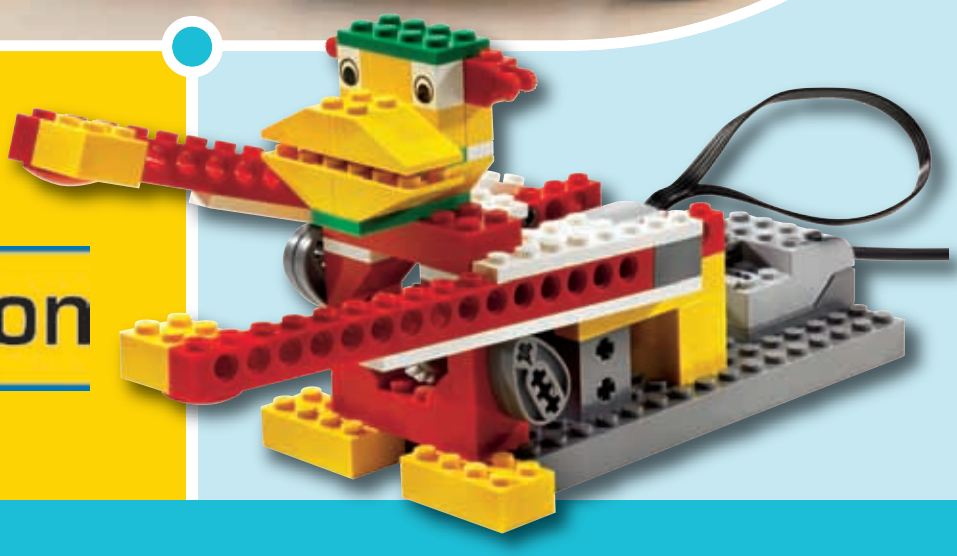
LEGO® Education Range

education



Dear customer,

Welcome to the brand new LEGO® Education Catalogue from RM.

The LEGO Education range has an excellent reputation for promoting the highest quality educational products and associated teaching materials, that are relevant to the UK curriculum across Key Stages 2-4 for subjects including Science, Design and Technology and ICT.

We are committed to providing carefully selected products that will allow schools to create a stimulating and innovative learning environment. LEGO has proven time and time again to encourage pupils to learn in a creative way. Many of the LEGO sets are designed to allow children to work in pairs or in small teams to construct solutions to simple problems and then convey these solutions to a wider audience. You will be surprised at the extensive subject applications, age and ability ranges that LEGO Education products can be used for!

Please do contact our helpful Customer Services department for more informatioin on our range of products. Alternatively, if you know what you are looking for, fax or phone in your order today and we will arrange for delivery as soon as possible.

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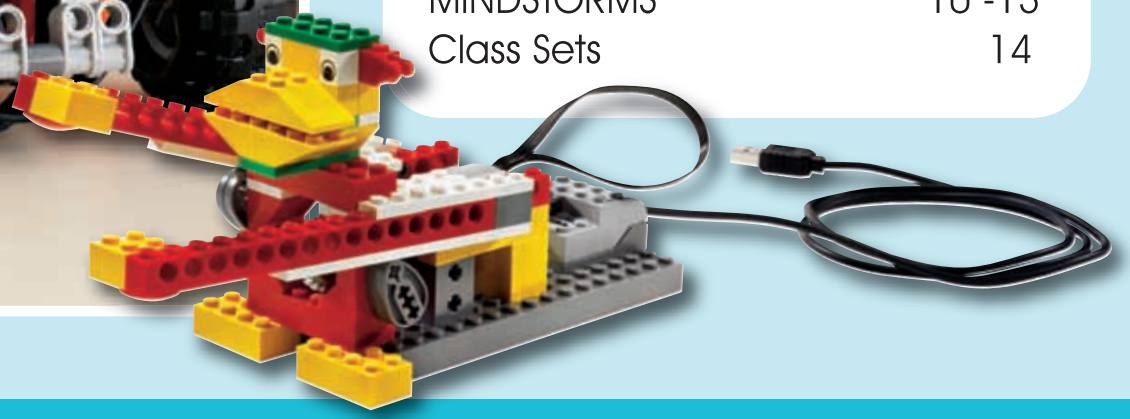

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KS3
1L5-835
Simple & Powered Machines Set £98.00

The core brick set in our range of Machines & Mechanisms solutions, this set includes full-colour building instruction booklets for 10 principle models and 18 main models. Combine with curriculum-relevant activity packs and add-on sets to carry out a broad range of activities within design technology, science and mathematics.

Learning Values:

- Building and exploring real life Machines and Mechanisms
- Investigating powered machines with the motor
- Using plastic sheets for calibration and capturing wind
- Exploring gearing mechanisms with the assorted gear wheels including differential

KS3/4
1CA-691
LEGO® MINDSTORMS® Education Base Set £198.00

This set enables students to build and program real-life robotic solutions. Includes the programmable NXT Brick, providing on-brick programming and data logging, three interactive servo motors, ultrasonic, sound, light and two touch sensors, a rechargeable battery, connecting cables, and full-colour building instructions. Software (1KM-102) and battery charger (17M-287) are sold separately.

LEGO mindstorms education

KS3
1L5-835
£98.00
Simple & Powered Machines Set

The core brick set in our range of Machines & Mechanisms solutions, this set includes full-colour building instruction booklets for 10 principle models and 18 main models. Combine with curriculum-relevant activity packs and add-on sets to carry out a broad range of activities within design technology, science and mathematics.
Learning Values:

- Building and exploring real life Machines and Mechanisms
- Investigating powered machines with the motor
- Using plastic sheets for calibration and capturing wind
- Exploring gearing mechanisms with the assorted gear wheels including differential

KS3
1L5-845
£39.00
Pneumatics Add-on Set

The Pneumatics Add-on Set complements the 1L5-835 Simple and Powered Machine Set, providing five principle models and four real-life pneumatics models. Includes full-colour building instructions, pumps, tubes, cylinders, valves, air tank and a manometer. Combine with the 1L5-846 Activity Pack to carry out 14 principle model activities, four new lesson plans and two problem-solving tasks.

Learning Values:

- Building and exploring pneumatics through real-life LEGO models
- Investigating power systems and components
- Pressure measuring in psi and bar
- Exploring kinetic and potential energy

KS3
1L5-846
£39.00
Activity Pack for Pneumatic Add-On Set

This activity pack provides 14 principle model activities, four 45-minute pneumatics lessons each with extension activities of up to 20 minutes, and two additional problem-solving tasks. Video clips introduce the activities by showing real-life machines, which are similar to the LEGO models used in the lessons.

Learning Values:

- Building and exploring pneumatics through real-life LEGO models
- Exploring sequence and control
- Engaging students in engineering and design
- Using measures and data analysis to describe and explain outcomes

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Classroom Solutions
Simple & Powered Machine Set

Add-On

Add-On

Starter Set 2 - 3 students 1MA-113 £229.00

- 1x 1L5-835 Simple & Powered Machines Set
- 1x 1L5-842 Activity Material
- 1x 1L5-845 1x Pneumatic Add - on Set
- 1x 1L5-846 1x Activity Material

Classroom Set 24 students 1MA-112 £1649.00

- 12x 1L5-835 Simple & Powered Machines Set
- 1x 1L5-842 Activity Material
- 12x 1L5-845 1x Pneumatic Add - on Set
- 1x 1L5-846 1x Activity Material

KS3
1L5-842
Introducing Simple & Powered Machines
£65.00

With this activity pack students get a fundamental understanding of simple machines, structures and mechanisms. The pack features 37 principle model activities, 14 main activities, including extension activities, and six problem-solving tasks. Flash animations introduce the activities. Teacher's notes, student worksheets and glossary included.
Learning Values:

- Investigating the principles of simple machines, mechanisms and structures
- Experimenting with balanced and unbalanced forces
- Experimenting with friction
- Capturing, storing and transferring wind energy
- Measuring distance, time, speed and weight
- Calibrating scales
- Investigating powered forces and motion, speed and pulling power

KS3
1L5-847
Advancing with Simple & Powered Machines
£39.00

This activity pack allows students to get an in-depth understanding of simple machines, mechanisms, structures and mechanical advantage. It includes 38 principle model activities, four main activities, including extension activities, and eight problem solving activities. Real-life video clips introduce students to the activities. Teacher's notes, student worksheets and glossary included.
Learning Values:

- Investigating the principles of simple machines, mechanisms and structures
- Mechanical advantage
- Balanced and unbalanced forces
- Equilibrium
- Block and tackle
- Effect of force on an object
- Experimenting with friction
- Calculating speed, distance, time and weight
- Identifying dependent and independent variables

KS3/4
1L5-834
Renewable Energy Set
£162.00

Embracing a wide range of elements including a solar panel, a capacitor and two motors this set helps students investigate the concepts of energy, energy sources, electricity and the environment by building models. Contains building instructions for constructing a windmill, water mill or solar-powered Ferris wheel and several supplementary models.

KS3/4
1L5-841
Renewable Energy Activity Pack
£32.00

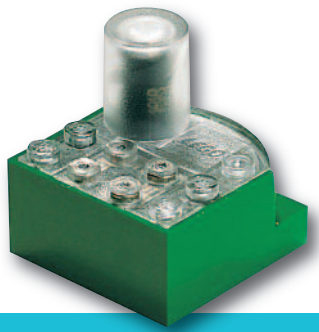
Designed for use with 1L5-834 Renewable Energy Set, the 49 activities in this pack help students to explore, investigate and solve problems pertaining to renewable energy. The activities are divided into two levels, which can be taught either sequentially or individually.

KS3/4
1L5-897
Power Functions M-Motor
£6.00

Build an extra medium-strength, medium-sized M-Motor into your LEGO creations and watch things start moving.

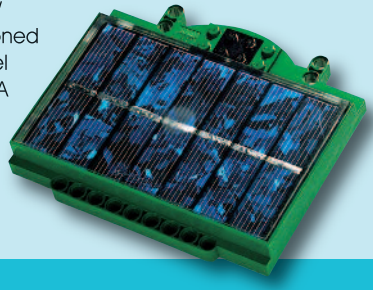
KS3/4
1L5-844
Capacitor
£19.00

Using a LEGO® solar panel or a LEGO motor as generator, the capacitor can be charged and discharged just like a rechargeable battery. The capacitor can be used for powering a LEGO motor. When the capacitor is fully charged, operating voltage is normally 2.5V. A red diode lights flashes when fully charged. The capacitor is protected against reverse polarity.



KS3/4
1L5-843
Solar Panel
£33.00

The LEGO® Solar panel provides sufficient power to operate LEGO motors. It delivers: 3V, 200mA in full sunlight outdoors, 3V, 100mA indoors with full sun outdoors, 2.5V, 8mA with light from a 60W incandescent bulb positioned 25cm from the solar panel (2000 lux), and 2.5V, 40mA with light from a 60W incandescent bulb positioned 8cm from the panel (10,000 lux).



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KS2/3
1L5-829
Gears - Mini Set
£18.00

This set provides a perfect hands-on introduction to gears and the mechanics of gearing. Includes step-by-step guide to building a merry-go-round and windmill, as well as material for up to 10 lessons. Ideally, one set per 2 students.

Teacher's Guide for Gears

Specially designed to complement Gears - Mini Set, this 20-page guide includes an introduction for the teacher, illustrated explanations to the principles of gears, "How-to" pages, problem-solving activities, extra activity ideas, and copy masters.

1L5-836 **£5.00**
Teacher's Guide

KS2/3
1L5-830
Levers - Mini Set
£18.00

A set designed to help the whole class learn all about simple levers by building appealing models. With its assorted beams, bushings, a weight element and building instructions, this set provides everything needed for countless open-ended classroom activities. Ideally, one set per 2 students.

Teacher's Guide for Levers

Specially designed to complement Levers - Mini Set, this 20-page guide includes an introduction for the teacher, illustrated explanations of the principles of levers, problem-solving activities, "How to" pages, extra activity ideas and copy masters.

1L5-837 **£5.00**
Teacher's Guide

KS2/3
1L5-831
Pulleys - Mini Set
£18.00

Aimed at giving students an insight into the power of the pulley, this set helps children study the effects of changing the direction of rotation and increasing force and speed. Includes assorted pulleys, wheels, axles, belts, beams and building instructions. Ideally, one set per 2 students.

Teacher's Guide for Pulleys

Specially designed to complement Pulleys - Mini Set, this 20-page guide includes an introduction for the teacher, illustrated explanations to the principles of pulleys, "How to" pages, problem-solving activities, extra activity ideas and copy masters.

1L5-838 **£5.00**
Teacher's Guide

KS2/3
1L5-832
Wheels and Axles - Mini Set
£18.00

This set of wheels, axles and rollers helps students gain a deeper understanding of the concepts of movement and speed. Also includes beams, figures and building instructions for a variety of classroom activities. Ideally, one set per 2 students.

Teacher's Guide for Wheels & Axles

Specially designed to complement the Wheels & Axles - Mini Set, this 20-page guide includes an introduction for the teacher, illustrated explanations to the principles of wheels and axles, "How to" pages, problem-solving activities, extra activity ideas and copy masters.

1L5-839 **£5.00**
Teacher's Guide

KS2/3
1JT-643
LEGO® Education WeDo™ Construction Set **£78.00**

The WeDo Construction Set enables students to build and program simple LEGO models that are plugged into a computer. The set contains more than 150 elements, including a motor, motion and tilt sensors, and the LEGO USB Hub. Combine with the 1JT-665 Activity Pack to carry out 12 theme-based activities. Software is sold separately, see 1JT-644.

Learning Values:

- Design and construct models
- Brainstorm to find creative alternative solutions
- Learn to communicate, share ideas and work together

KS2/3
1L5-899
LEGO® USB Hub **£25.00**

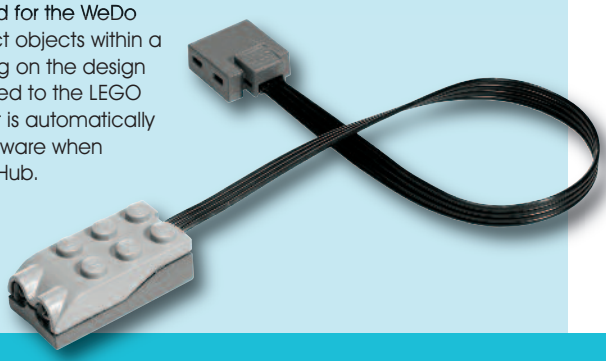
The LEGO USB Hub designed for the WeDo Construction Set controls sensors and motors via the WeDo Software when connected to a computer's powered USB port. This two-port hub transmits power and data to and from the computer, and both ports are able to control motors and sensors. The LEGO USB Hub is automatically detected by the WeDo Software when connected to a computer.

KS2/3
1L5-897
Power Functions M-Motor **£6.00**

Build an extra medium-strength, medium-sized M-Motor into your LEGO creations and watch things start moving.

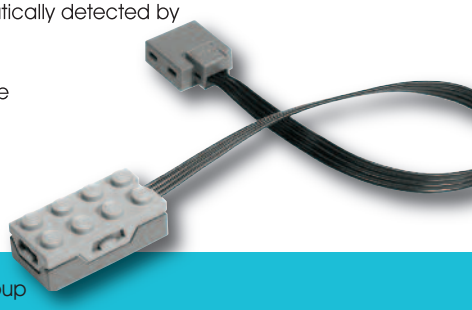
KS2/3
1L5-900
Motion Sensor **£9.00**

The motion sensor designed for the WeDo Construction Set can detect objects within a range of 15 cm, depending on the design of the object, when attached to the LEGO USB Hub. The motion sensor is automatically detected by the WeDo Software when attached to the LEGO USB Hub.



KS2/3
1L5-901
Tilt Sensor **£9.00**

The tilt sensor designed for the WeDo Construction Set detects changes within six different positions: Tilt This Way, Tilt That Way, Tilt Up, Tilt Down, No Tilt and Any Tilt. The tilt sensor is automatically detected by the WeDo Software when connected to the LEGO USB hub.



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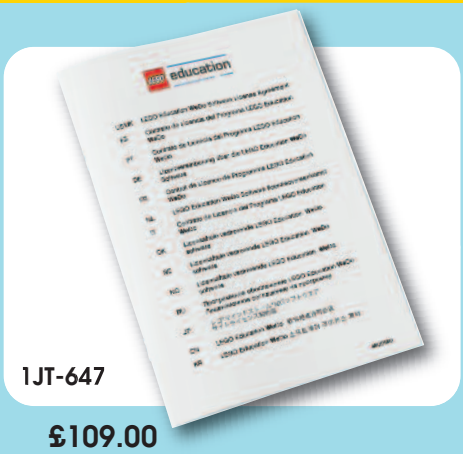
Classroom Solutions
LEGO® Education WeDo



Starter Set **2-3 students** **1MA-099** **£109.00**

1x	1JT-643 LEGO WeDo Construction Set	1x	1JT-644 LEGO WeDo Software
0x	1JT-647 LEGO WeDo Site Licence		

1/2 Class Set **10 - 12 students** **1ME-523** **£619.00**

6x	1JT-643 LEGO WeDo Construction Set	1x	1JT-644 LEGO WeDo Software
1x	1JT-647 LEGO WeDo Site Licence		

Full Class Set **25 - 30 students** **1ME-524** **£1289.00**

15x	1JT-643 LEGO WeDo Construction Set	1x	1JT-644 LEGO WeDo Software
1x	1JT-647 LEGO WeDo Site Licence		

KS2/3
1JT-644
LEGO® Education WeDo™ Software **£39.00**

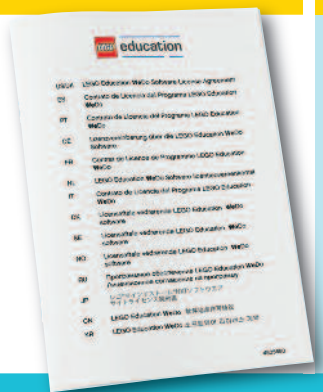
Easy-to-use, drag-and-drop software designed to work with the WeDo Construction Set. The software, powered by LabVIEW, is icon-based and provides an intuitive programming environment suitable for children from 7 years and up. The software automatically detects motors and sensors when they are attached to the LEGO USB Hub. Includes digital Getting Started Guide with simple building tips and programming examples.

Learning Values:

- Program and create a working model
- Use software media to acquire information
- Use feedback to adjust a programming system output.

KS2/3
1JT-647
LEGO® Education WeDo™ Site License **£149.00**

The Site License Agreement allows WeDo Software to be used on any compatible computer at the purchasing institution. The Agreement is necessary when installing the software on more than one computer. Requires pre-purchase of 1JT-644 WeDo Software.



KS2/3
1JT-665
Activity Pack for WeDo™ Construction Set **£65.00**

This activity pack includes 12 activities and provides up to 24 hours of instruction and project-based learning. Animations introduce the tasks that students must solve. Activities integrate into the WeDo Software and are divided into 4 themes: Amazing Mechanisms, Wild Animals, Play Soccer and Adventure Stories. Teacher notes, glossary and building instructions included.

KS3/4
1CA-691
LEGO® MINDSTORMS® Education Base Set

£198.00

This set enables students to build and program real-life robotic solutions. Includes the programmable NXT Brick, providing on-brick programming and data logging, three interactive servo motors, ultrasonic, sound, light and two touch sensors, a rechargeable battery, connecting cables, and full-colour building instructions. Software (1KM-102) and battery charger (17M-287) are sold separately.

KS3/4
1B9-293
Education Resource Set

£51.00

A wide variety of additional building elements that help bring life to MINDSTORMS Education robots as well as to the range of LEGO Education Science & Technology sets. Plenty of extra standard elements such as beams, axles and connectors and special elements such as a crane hook and tread wheels. An ideal supplement to 1CA-691 for robotics competitions.

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KS3/4
1KM-102
LEGO® MINDSTORMS Education NXT Software V2.0 (with Data Logging)
£45.00

This powerful, easy-to-use software for programming and data logging is icon based. It includes a Robot Educator step-by-step guide with 46 tutorials, from beginner to advanced levels. Data logging functionalities, including graph viewer, make it easy to collect and analyse data from sensors. The software incorporates a comprehensive digital user manual and is based on LabVIEW.

Learning Values:

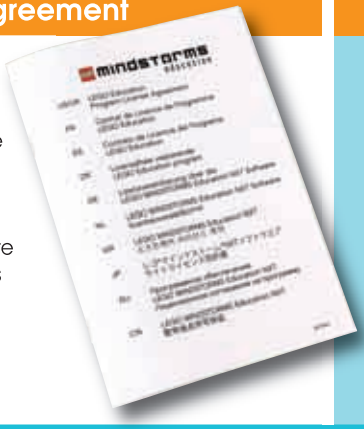
- Using input and output devices and producing a simple set of sequential instructions linking cause and effect
- Developing and testing a system to monitor and control events
- Using intuitive prediction tools to get first hand experience with making hypothesis
- Using the scientific inquiry process when gathering and analysing data sets
- Integrating Maths and Science using physical constants, units of measurement, coordinate systems, min, max, mean and linear formulas

KS3/4
1L5-879
NXT Temperature Sensor
£21.00

The temperature sensor is a digital sensor powered by the NXT brick. Using the NXT brick and NXT software version 2.0, it can be calibrated to measure both Celsius and Fahrenheit (-20 °C to +120 °C/-4 °F to +248 °F).

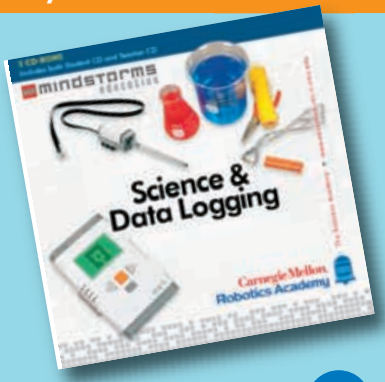
KS3/4
1B9-080
NXT Site License Agreement
£169.00

The site license agreement allows LEGO MINDSTORMS Education NXT software to be used on any compatible computer at the purchasing institution. Is necessary when installing the software on more than one computer. Requires pre-purchase of 1KM-102 MINDSTORMS Education NXT Software.



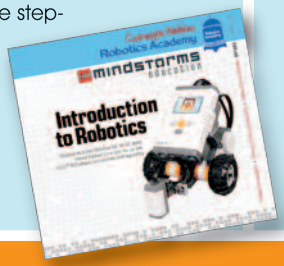
KS3/4
1L5-911
Science and Data Logging Activity Pack
£65.00

This activity pack gives you four real-life science activities and one research project providing up to 25 hours of instruction. The activities are divided into four themes: Motion, Light and Colour, Heat Transfer and Sound. The research project covers solar heating. Developed by Carnegie Mellon University's Robotics Academy, it includes video clips, worksheets and teacher introduction materials. NXT Temperature Sensor 1L5-879 and NXT Software v.2.0 1KM-102 are required.



KS3/4
1L5-912 **£65.00**
Introduction to Robotics

Getting started in the classroom - this CD provides up to 24 hours of tuition divided up in 6 main projects and 3 end-of-project activities. It is an easy to use step-by-step guide to robotics engineering using the MINDSTORMS set.



KS3/4
1L5-913 **£65.00**
Robotics Projects: Themes

Provides 3 theme-based projects of up to 24 hours tuition. The projects are based on real-life themes: Automated Mining, Sentry Guard Dog, and Automated Tree Measuring. Students work independently, using a variety of sources to expand their knowledge in order to design, build and program effective solutions.

KS3/4
1L5-908 **£156.00**
Robotics Engineering: Mobile Robotics

Getting started in the classroom - this two-CD set provides 45 hours of tuition divided up in 6 main projects, 6 investigations, 3 anytime projects and 3 end-of-project activities. Developed by Carnegie Mellon University's Robotics Academy, it is a comprehensive step-by-step guide to robotics engineering. Includes presentations, video clips, worksheets and extensive teacher introduction materials. Activities can be extended to include guided research projects, see 1L5-909.

KS3/4
1L5-907 **£156.00**
Teaching ROBOT C for LEGO® MINDSTORMS®

This exciting activity pack includes more than 40 lessons for teaching text-based programming relating to engineering challenges for both the NXT and RCX platforms. Providing video-based instruction, the lessons cover the following topics: Movement, Sensing, Variables, Programming, Systems, and Advanced. Includes a set-up guide with software downloads, step-by-step instructions, and troubleshooting information. Requires use of the ROBOTC Software developed by Carnegie Mellon University

KS3/4
1L5-909 **£156.00**
Robotics Engineering: Guided Research

This activity pack provides 3 comprehensive research projects of up to 60 hours tuition in total. Developed by Carnegie Mellon University's Robotics Academy, projects are based on real-life themes: Automated Mining, Sentry Guard Dog, and Automated Tree Measuring following an authentic Engineering guided research approach. Includes advanced programming support. Robotics Engineering: Guided Research is the next natural step for students who have completed the Introduction to Mobile Robotics, 1L5-908.

KS3/4
1L5-905 **£45.00**
ROBOT C Single License

KS3/4
1L5-906 **£188.00**
ROBOT C Classroom Lic.

ROBOT C provides an alternative text-based programming language to the NXT-G graphics-based tools that are currently available. Designed by the Carnegie Mellon Robotics Academy, ROBOT C can be used with both the NXT and the RCX systems. This makes it the option to consider for classrooms that are looking for a uniform programming environment for both platforms.

KS3/4
1L5-884 **£103.00**
Intelligent NXT Brick

Programmable 32-bit brick, including Bluetooth" wireless communication and USB port. Programmable dot matrix display. 4 input, 3 output ports. 6 wire digital platform. 8KHz loud speaker. It is possible to use a number of simple predefined commands directly on the brick. More advanced programming requires software pack 1KM-102. Requires 6 AA batteries or the 1L5-881 Rechargeable Battery.

KS3/4
17M-287 **£9.00**
Transformer (V)

9 Volt transformer for the RCX and the NXT Rechargeable Battery.

KS3/4
1L5-890 **£20.00**
USB Bluetooth™ Dongle

The Abe USB Bluetooth adapter enables wireless communication between your PC or Mac and the NXT device. The Abe USB Bluetooth adapter is supported by Microsoft Windows XP (with Service Pack 2) and Apple MacOS X (10.3.9 and 10.4).

KS3/4
1L5-881 **£28.00**
Rechargeable Battery

Lithium battery with A/C plug. Designed for use with the 1L5-884 NXT brick as alternative to normal AA batteries. Capacity: 1400 mAh. Estimated recharge time 4-5 hours. Charger available, see 17M-287.

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Classroom Solutions
MINDSTORMS® Education Base Set

1CA-691

1KM-102

1B9-080

17M-287

Add-On

1B9-293

Starter Set — **2 - 3 students** — **1MA-102** — **£285.00**

1x 1CA-691 LEGO MINDSTORMS Education Base Set	1x 1KM-102 Education Software	0x 1B9-080 NXT Site License Agreement	1x 17M-287 Transformer	1x 1B9-293 Education Resource Set

Classroom Set — **24 students** — **1MA-109** — **£2749.00**

12x 1CA-691 LEGO MINDSTORMS Education Base Set	1x 1KM-102 Education Software	1x 1B9-080 NXT Site License Agreement	12x 17M-287 Transformer	4x 1B9-293 Education Resource Set

KS3/4 1L5-882 Vernier NXT Sensor Adaptor — £40.00

The Vernier NXT Sensor Adaptor allows you to integrate Vernier sensors with the Intelligent NXT brick and the NXT Software. This enables you to carry out an even wider variety of science experiments and data collection with your students. Embedded in a LEGO® NXT sensor housing, the adaptor is very easy to assemble on NXT models.

KS3/4 1L5-886 Touch Sensor — £11.00

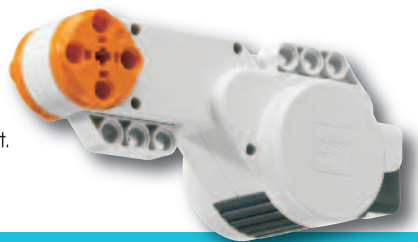
Using the NXT brick, the touch sensor detects pressure - i.e. when the button is pressed or released. The sensor is also able to count single press and multiple presses. A LEGO cross axle can be attached to the sensor button. You will need a connector cable, which is included in the 1CA-691 Base Set.

KS3/4 1L5-889 Ultrasonic Sensor — £21.00

Using the NXT brick, the ultrasonic sensor is able to detect an object and measure its proximity in inches and centimetres. You will need a connector cable, which is included in the 1CA-691 Base Set.

KS3/4 1L5-885 Interactive Servo Motor — £16.00

Servo Motor with in-built rotation sensor that measures speed and distance and reports back to the NXT. This allows for motor control within one degree of accuracy. Several motors can be aligned to drive at the same speed. You will need a connector cable, which is included in the 1CA-691 Base Set.



KS3/4 1L5-887 Light Sensor — £11.00

Using the NXT brick, the light sensor is able to sense light or dark as well as light intensity in a room. It is also able to measure light intensity in colours (grey scale sorting). You will need a connector cable, which is included in the 1CA-691 Base Set.

KS3/4 1L5-888 Sound Sensor — £17.00

Using the NXT brick, the sound sensor is able to measure noise levels in DB and DBA. It can also recognize sound patterns and identify tone differences. You will need a connector cable, which is included in the 1CA-691 Base Set.

Keystage 2 & 3 Robotics Pack 1ME-527 £2969.00

Recommended selection of LEGO Products to support Key Stage 2 & 3. Contains:

5 x LEGO MINDSTORMS with Software and Licence

5 x LEGO WeDo Construction Set with Software, Licence and Activity pack

3 x LEGO Simple Powered machines Set with Pneumatic Add-on Set and Activity Pack

3 x LEGO Renewable Energy Set with Activity pack

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LEGO mindstorms education